



## WATER LICENCE INSPECTION FORM

Original  
 Follow-Up Report

<b>Licensee</b>	<b>Licensee Representative</b>
Agnico Eagle Mines Limited	Brett Fairbairn
<b>Licence No. / Expiry</b>	<b>Representative's Title</b>
2BB-MEL1424/ July 21 <sup>st</sup> , 2024	Environment Coordinator
<b>Date of Inspection</b>	<b>Inspector</b>
April 19 <sup>th</sup> , 2022	RMO Wilson
<b>Activities Inspected</b>	
<input type="checkbox"/> Camp <input type="checkbox"/> Drilling <input type="checkbox"/> Mining <input type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input checked="" type="checkbox"/> Fuel Storage <input type="checkbox"/> Roads/Hauling <input checked="" type="checkbox"/> Other: Spill <input type="checkbox"/> Other:	

<b>SECTION 1</b>	<input checked="" type="checkbox"/> <b>Comments</b>	<input type="checkbox"/> <b>Non-Compliance with Act or Licence</b>	<input type="checkbox"/> <b>Action Required</b>
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On April 19<sup>th</sup>, an inspection of reportable spill number 2022-136 at Agnico Eagle Mines Ltd.'s Meliadine Gold Project, Exploration Division was completed by Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC)'s, Water Resources Officers, Christine Wilson (Inspector) and Kyle Amsel.

The following report was produced with the observations noted by the Inspector at the lake referred to as A8 as well as information provided by Agnico Eagle Mine Ltd. (AEM) Environment Coordinator, Brett Fairbairn; Environment Superintendent, Eric Giroux; Exploration Geologist, Manuel Arseneau; and Orbit Garant, Surface Supervisor, Andre Beulieu; General Supervisor (Surface Drilling) Tommy Thelland .

**Summary- Lake A8 Spills 2022**

- On March 5<sup>th</sup> approximately 10L of diesel fuel was spilled to the surface of the ice of Lake A8. Spill number 2022-065 was assigned to the file.
- On March 18<sup>th</sup> approximately 15L of drill cuttings was spilled to the surface of the ice of Lake A8. Spill number 2022-084 was assigned to the file.
- On March 20<sup>th</sup> approximately 10L of diesel was spilled to the surface of the ice of Lake A8. Spill number 2022-089 was assigned to the file.
- On March 29<sup>th</sup> approximately 20L of drill recirculation water was spilled to the surface of the ice of Lake A8. Spill number 2022-105 was assigned to the file.
- On April 1<sup>st</sup> approximately 150L of drill recirculation water was spilled to the surface of the ice of Lake A8. Spill number 2022-112 was assigned to the file.
- On April 1<sup>st</sup> approximately 6L of drill recirculation water was spilled to the surface of the ice of Lake A8. Spill number 2022-111 was assigned to the file.
- On April 3<sup>th</sup> approximately 500mL of diesel fuel was spilled to the surface of the ice of Lake A8. Spill number 2022-132 was assigned to the file.
- On April 18<sup>th</sup> an unknown amount of diesel was spilled to the surface of the ice of Lake A8. Spill number 2022-136 was assigned to the file.

**April 19<sup>th</sup> Observations**

1. Calcium Chloride storage is not adequate. The bags are ripped open and the chemicals are spreading to the surface of the ice (photo 1 and 2).
2. Water is tanked from a hole in the ice of Lake A8 located at N63° 0' 33.17", W92° 12' 9.86" (photo 3) . Currently water usage is calculated by the tank. This method is not acceptable and needs to be improved before the next inspection.
3. The ice surface around the drill are generally stained with a grey material and water which is used in the drilling process (photo 3- 12 ). Orbit indicated the majority of the grey material is dust from drilling.
4. The rigs are used in the summer months in the interior if the mine. The rigs appear to accumulate mud on the skids and walking surfaces during time.
5. Current practice, Orbit is responsible to complete an inspection of the drill rigs three times a day for environmental concerns. There was some confusion between drillers, Environment and Orbit management as to how often and what parts of the form need to be completed.
6. Upon completion of drilling the ice surface is scrapped and the material is brought to the snow cell for disposal. A reclaimed drill site approximately located at N63° 0' 31.46", W92° 12' 13.84" has some grey material remaining on the surface of the ice and in the melted hole as well as a small spill of what appears to be hydrocarbons (photo 13).
7. Mobile fuel sleds are stored along the All Weather Access Road. The tanks are refilled at this location. This location should be inspected for spills once the drill campaign is completed.

<b>SECTION 2-</b>	<input type="checkbox"/> <b>Comments</b>	<input type="checkbox"/> <b>Non-Compliance with Act or Licence</b>	<input checked="" type="checkbox"/> <b>Action Required</b>
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Failure to comply with the conditions of water licence 2BB-MEL1424:

- 1) PART B, item 8 -Failure to install flow meters or other such devices acceptable to the Inspector.

April 28<sup>th</sup> photographs were provided to the inspector of the newly installed meters at each of the drills. No other issues noted with this failure.

- 2) PART F, item 2 -Failure to contain all drill waste and salt in any quantity from on-ice drilling in a properly constructed sump or appropriate natural depression.





On April 28<sup>th</sup> AEM provided information to the Inspector regarding the storage of salt, the rig wash prior to use on-ice, as well as a the location of the new natural depression that will be used for disposal of drill cuttings.

Concerns related to the information provided to the Inspector:

Section of the Drill Environment Inspection Guide forms for 0630hr and 1400hr, April 20<sup>th</sup>, Drill # 1 is missing information. The inspector believed either the forms function needs to be improved or training on how to use the form needs to be provided.

**SECTION 2-  Comments  Non-Compliance with Act or Licence  Action Required**

**Actions Required**

- The Licensee will maintain a physical copy of the water licence in the site of operations ( e.g.: available for access by Environment, Geology and Orbit) for reference as required by Part B, item 14.
- The Licensee will inspect mobile fuel tanks regularly when located on-ice as required by Part H item 2. This concern was highlighted as an issue for drill setups that are not in operation but the tanks remain on the ice.
- The area along the AWAR, where fuel transfer occur will be inspected by the Environment Division for spills upon completion of activities.

<b>Inspector's Name</b> Christine Wilson	<b>Representatives Name</b> Brett Fairbairn
<b>Signature</b> <i>Christine Wilson</i>	<b>Signature</b>
<b>Date</b> April 12 <sup>th</sup> , 2022	<b>Date</b>



**PHOTO LOG**

<b>Date:</b> April 19 <sup>th</sup> , 2022	<b>Authorization Number:</b> 2BB-MEL1424	<b>Camera/Model:</b> Sony DSC-HX50V	<b>Inspector</b> C. Wilson
<b>Photo No.</b> Photo 1	<b>Lat/Long (DD.MM.SS.SS, NAD83)</b> N63° 0' 38.84", W92° 12' 16.40"		



**Description:**  
Improper storage of chemicals at drill rigs 1



Photo No.

Photo 2

Lat/Long (DD.MM.SS.SS, NAD83)

N63° 0' 41.02", W92° 12' 24.93"



**Description:**

Improper storage of chemicals at drill rig 2.



Photo No.

Photo 3

Lat/Long (DD.MM.SS.SS, NAD83)

N63° 0' 33.17", W92° 12' 9.86"



**Description:**

Fresh water hole, Lake A8.



Photo No.

Photo 4

Lat/Long (DD.MM.SS.SS, NAD83)

N63° 0' 39.44", W92° 12' 16.83"



Description:

Ice Surface around the drills 1



Photo No.

Photo 5

Lat/Long (DD.MM.SS.SS, NAD83)

N63° 0' 39.46", W92° 12' 16.77"



**Description:**

Grey staining to Ice surface around sleds.



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 6

N63° 0' 31.81", W92° 12' 13.94"



**Description:**

Grey material on the ice surface of A8 Lake.



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 7

Not available GPS error



**Description:**

Grey materials of the surface of the ice of Lake A8



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 8

N63° 0' 41.225", W92° 12' 24.93"



**Description:**

Material on the surface of the ice at Lake A8



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 9

N63° 0' 41.345", W92° 12' 24.97"



**Description:**

Grey material and drilling water on the surface of the ice.



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 10

N63° 0' 41.345", W92° 12' 24.97"



**Description:**

Grey and black material in a pile of snow on the surface of the Lake A8.



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 11

Not available GPS error



**Description:**

Grey materials on the sides of the sled and the surface of the ice.



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 12

N63° 0' 40", W92° 12' 17.47"



Description:

Grey materials on the ice surface of A8 Lake.



Photo No.

Lat/Long (DD.MM.SS.SS, NAD83)

Photo 13

N63° 0' 31.325", W92° 12' 13.40"



**Description:**

What appears to be a small spill on the surface of the ice.